

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## "BOX" METHOD IN REVERSE

When we learned the "Box" method for multiplying polynomials, we put the dimensions of the box on the outside and the area of the box on the inside.

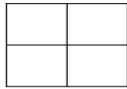
Example:  $(x + 2)(x - 4) = x^2 - 2x - 8$

	$x$	$- 4$
$x$	$x^2$	$-4x$
$+ 2$	$2x$	$-8$

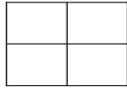
In this lesson, you will be given the answer and one of the dimensions.  
 Put the first and last terms in their appropriate places.  
 Put the given dimensions along one of the sides and find the other dimension.  
 You may check your answers with the Algebra Tiles.

Area      Dimensions

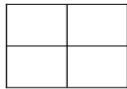
1.  $2x^2 - 2x = (2x)( \quad )$



2.  $x^2 + 5x + 4 = (x + 1)( \quad )$

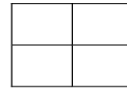


3.  $x^2 + 3x - 4 = (x + 4)( \quad )$

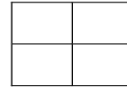


Area      Dimensions

4.  $2x^2 + 7x + 3 = (x + 3)( \quad )$



5.  $x^2 + 2x - 3 = (x - 1)( \quad )$



6.  $x^2 - x - 12 = (x + 3)( \quad )$

